



# TECHNICAL DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

Issued: August 2020

## Rapidstick™ 8272 Threadlocker

PART NUMBER	AVAILABLE SIZE
8272-10	10ml Bottle
8272-50	50ml Bottle
8272-250	250ml Bottle

### PRODUCT DESCRIPTION

Chemtools® Rapidstick™ 8272 Threadlocker is a fast curing, high strength, high temperature compound for the sealing and locking of studs, nuts, screws, bolts, joints, and fittings. It prevents loosening and leakage, and is highly resistant to vibrations, water, gases, oils, hydrocarbons and many chemicals.

8272 is lubricated for easy assembly, and is ideal for thread locking heavy duty applications such as bolts used in transmission, construction equipment, or railroad assemblies.

8272 performs best in thin bond gaps, and is specifically formulated to give controlled friction and torque/tension ratio during assembly.

### DIRECTIONS (READ LABEL BEFORE USE)

All surfaces must be clean, dry, and free of dust and grease.

Apply to the bolt in sufficient quantity to fill threads.



# TECHNICAL DATA SHEET

## A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

### TECHNICAL DATA

#### LIQUID PROPERTIES:

Composition	Methacrylate Ester
Appearance	Red
Viscosity @ 25°C, Brookfield RVT, Spindle 3, 20 rpm	9,500 cps
Maximum Diameter of Thread/Gap Filling	36mm (1.4")
Specific Gravity	1.12
Flash Point	> 93°C
Solvent Content	None
Shelf Life	2 years from date of manufacture

#### CURED ADHESIVE PROPERTIES:

Service Temperature Range	-55°C to +204°C
Handling Cure Time	30 minutes
Functional Cure Time	1 – 3 hours
Full Cure Time	24 hours

#### MECHANICAL PROPERTIES:

Coefficient of Thermal Expansion, ASTM D696, K <sup>-1</sup>	80 x 10 <sup>-6</sup>
Coefficient of Thermal Conductivity, ASTM C177, W.m <sup>-1</sup> .K <sup>-1</sup>	0.1
Specific Heat, kJ/Kg.K	0.3
Compressive Shear Strength, ISO 10123, Steel Pins and Collars	14.5 N/mm <sup>2</sup> / 2,102 psi

#### Torque, ISO 10964, M10 Steel Nuts and Bolts

Breakaway Torque	23 N.m. / 200 lb.in.
Prevail Torque	25 N.m. / 220 lb.in.

#### CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1,000 hours
Acetone	22°C	95	95
Ethanol	22°C	100	100
Motor Oil	125°C	95	95
Petrol	22°C	100	100
Brake Fluid	22°C	100	100
Water/Glycol	87°C	90	85



# TECHNICAL DATA SHEET

## A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

### FIRST AID & SAFETY PRECAUTIONS

Please refer to Safety Data Sheet (SDS) before use. Use with adequate ventilation and avoid breathing fumes. Avoid contact with eyes and skin. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet (SDS) for this product have been fully understood by all persons who will work with the material.

### STORAGE

Keep out of reach of children. Store in a sealed container in a cool, dry place. Do not return any unused material to its original container.

Containers must be secured and stored upright during transit.

### DISCLAIMER

Chemtools® has made every effort to ensure the information provided in this Technical Data Sheet is accurate at the time of publication. Chemtools® expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.

### FURTHER INFORMATION

Please visit Chemtools® online at [www.chemtools.com.au](http://www.chemtools.com.au) for product photos, marketing materials, Technical Data Sheets, Safety Data Sheets, contact details, and other company/business related information.